EIA57128@PI-Edge Intelligent Analysis Server

EIA57128@PI

Overview

The EIA57128@PI is an industrial-grade intelligent analysis server independently developed by Uniview. It is available in three versions-32-channel, 64-channel, and 128-channel-based on their real-time processing capacity, to suit different scales of intelligent analysis scenarios. The device receives video streams from network cameras connected via RTSP and implements functions such as analysis, face library alarms, and abnormal behavior alarms. The device can integrate with higher platform and can also push alarms to mobile phones via EZCloud and UNV Guard. The device is easy to deploy and operate, and offers complete APIs for custom development and third-party integration. The device can adapt to diversified scenarios and is widely applicable to construction sites, corporate campuses, schools, hotels, and more.

Features

- Supports analysis of 32/64/128 video streams for and comparison, supports face-behavior linkage
- 112 built-in algorithms, including general functions, Personal Protective Equipment (PPE), personal behavior safety, vehicle safety, allowing user to choose any 30 types of algorithms to activate at the start.
- Supports real-time analysis of 32/64/128 video streams, supports up to 256/512/768 streams for analysis sequence.
- Supports data search, and can search different types of alarm data by attributes, supports search by image and alarm recording playback (not available to face-related functions) .
- Supports localized self-learning optimization for certain algorithms (intrusion, cross line, absence detection, climbing detection, long stay detection, individual alone) .
- Supports alarm information reporting, including alarm type, alarm image, and alarm video.
- Max. 100000 faces in the library.
- Supports connecting third-party cameras via RTSP; supports H.264 and H.265.
- Dual Gigabit network interfaces enable dual-network IP settings to adapt to different networking environments.
- Supports access using a web browser.

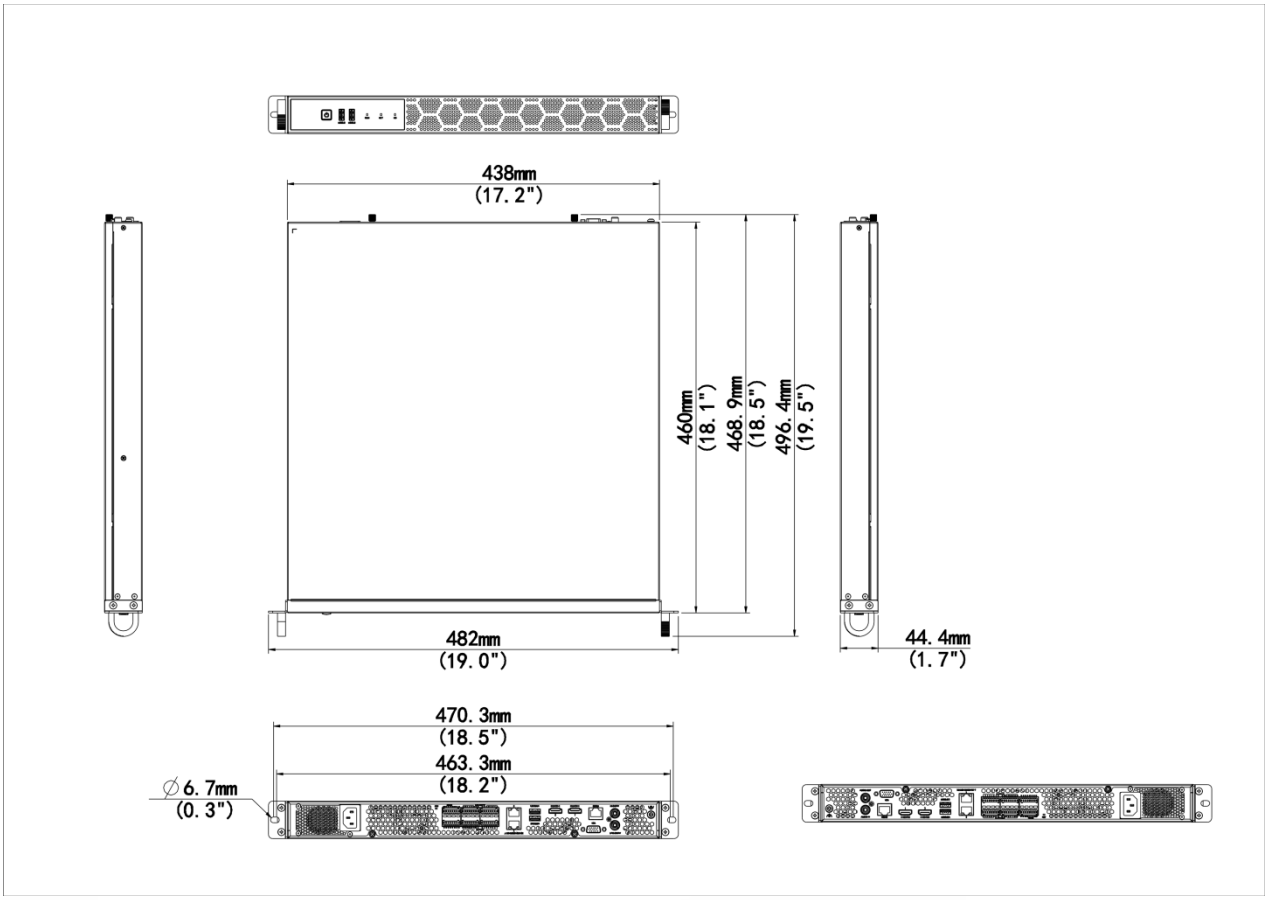
Specifications

Model	EIA57128@PI
BOM	
BOM	0235CB3A
VCA	
Smart	1.General: Face Detection, Intrusion Detection (Pedestrian target, motor vehicle, non-motor vehicle), Overcrowding Detection, Area People Counting, Tripwire People Counting, Preset Marker Detection, Cross Line Detection 2.Environmental safety: Exposed Trash, Charging Gun Not In Place Detection, Bagged Trash, Freight in Passenger Elevator Detection, Trash Bin Overflow, Gas Leak Detection, Water Leak Detection, Oil Leak Detection, Uncovered Bare Soil Detection, Gas Cylinder Detection, No Fire Extinguisher Detection, Fire Detection, Dog identification, Elevator Entrance Detection, Test Paper Color Change Detection, Rat Detection, Obstructed Evacuation Route Detection, Trash Bin Open Detection, Inspection of Debris Stacking, Object Removed, Object Left Behind, Fume Detection, Animal Intrusion Detection, Dump Truck Without Tarp Detection 3.Personal protective equipment (PPE) safety: No Helmet Detection, No Work Clothes Detection, No Reflective Clothing Detection, No Mask Detection, Shirtless Detection, No Chef Uniform Detection, No Chef Hat Detection, No Safety Harness Detection, No Safety Belt Detection, No Safety Goggles Detection, No Safety Gloves Detection, No Dust/Gas Mask Detection, Exposed Long Hair Detection, Equipment Detection 4.Personal behavior safety: Calling Detection, Fight Detection, Individual Alone Detection, Fall Detection, Unattended Fire Detection, Long Stay Detection, Inadequate Worker, Reverse Motion On Escalator Detection, Passing Things Through Fence Detection, Quick Moving Detection, Absence Detection, Long Queue Detection, Climbing Detection, Getting Up Detection, Crowd Dispersion, People Gathering, Knife/Stick in Hand Detection, Sleep On Duty Detection, Fare Evasion Detection, Using Mobile Phone Detection, Smoking Detection, Pedestrian Reverse Motion Detection, On-duty Personnel Ratio Detection 5.Vehicle safety: Forklift Overspeed Detection, Forklift Detection, Vehicle Entering/Exiting Service/Charging Station, Vehicle Washing Detection, Illegally Parked Non-Motor Vehicle, Construction Vehicle Detection, Illegally Parked Motor Vehicle, Illegal Fueling Detection, Campus Vehicle Overspeed Detection, Campus Vehicle Congestion Detection, Campus Entrance/Exit LPC 6.Traffic events: Road Construction Detection, Vehicle Congestion Detection, Road Snow Accumulation Detection, Traffic Parameters[Vehicle Flow (Vehicles/Min), Average Speed (km/h), Lane Time Occupancy Rate (%), Lane Space Occupancy Rate (%), Time Headway (ms), Space Headway (m), Queue Length (m), Traffic Status], Vehicle Wrong-Way Driving Detection 7.Urban management/water resources : Out-of-Store Object, Ship Detection, Ground Water Accumulation Detection, Illegally Parked Shared Bicycle, Floating Debris in River, Restricted Area Fishing Detection, Restricted Area Swimming Detection, Burning at Intersection, Unclean Road Surface, Water Outlet Discharge Detection, Water Level Detection, Abnormal Water Color Detection, Illegal Umbrella Shelter,

	Illegal Billboard, Hanging Clothes Along Street, Peddler Detection, Dump Truck Detection, Roadside Booth 8.Mining safety: Conveyor Belt Start/Stop Detection, Conveyor Belt Empty Load Detection, Coal Quantity Detection, Oversized Coal Detection, Conveyor Belt Deviation Detection, Foreign Object On Conveyor Belt Detection, Cross Over Conveyor Belt Detection, No Rubber Shoes Detection, No Headlamp Detection, No Self-Rescuer Detection 9.Instrumentation: LED Display Number Reading Recognition, Single Pointer Pressure Gauge Reading Recognition, Circuit Breaker Open/Closed Status Recognition, Indicator Light Status Detection
Features	
Face detection	Supports up to 128 channels of 2MP video streams for real-time analysis, 96 channels of 4MP video streams for real-time analysis, 64 channels of 6MP and 8MP video streams for real-time analysis (Face detection, behavior analysis and Expressway Event cannot be enabled simultaneously on the same channel)
analysis	Supports up to 128 channels of 2MP video streams for real-time analysis, 96 channels of 4MP video streams for real-time analysis, 64 channels of 6MP and 8MP video streams for real-time analysis Up to 768-channel video streams, with a minimum sequence interval of 3 minutes.
Face library capacity	Max. 100000 face library capacity
Work clothes library capacity	Max. 2000 work clothes library pictures
Algorithm self-learning	Support self optimization of some algorithms: Intrusion Detection Cross Line Detection Absence Detection Climbing Detection Long Stay Detection
Operating system	Linux, openEuler
Operation entry	Web
Supported languages	Chinese, Traditional Chinese, English, Japanese, Korean, Arabic, Russian, Argentine Spanish, Persian, Spanish
Video input	The device supports a maximum access of 768 channels and real-time analysis of 128 channels Supports up to 128 channels of 2MP video streams for real-time analysis, 96 channels of 4MP video streams for real-time analysis, 64 channels of 6MP and 8MP video streams for real-time analysis Up to 768-channel video streams, with a minimum sequence interval of 3 minutes.
Storage	
Hard disk	4TB HDD
Alarm capacity	
Alarm image	Max. 500000 alarm images (1080P)
Alarm video	Max. 400000 alarm videos (1080P, 10s long)
Electrical property	
Operating temperature	-10°C to +45°C
Operating humidity	10% to 90% (non-condensing)

Storage temperature	-10°C to +45°C
Storage humidity	10% to 90% (non-condensing)
Power consumption	< 100 W
Dimensions	44.4 mm (H) x 482 mm (W) x 496 mm (D)
External interface	
Network interface	2 x GE, RJ45
USB interface	4 (2 x USB 3.0 on front panel, 2 x USB 2.0 on rear panel)
Alarm input	16
Alarm output	10
Data Dock	
Websocket mode	√
HTTP/HTTPS mode	√
HTTP/HTTPS live	√
Compliance	
NDAA Compliant	Support

Dimensions



Unlimited New View

Zhejiang Uniview Technologies Co., Ltd.

http://www.uniview.com

overseasbusiness@uniview.com; globalsupport@uniview.com

No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China

©2025-2026 Zhejiang Uniview Technologies Co., Ltd. All rights reserved.

*Product specifications and availability are subject to change without notice.

Despite our best efforts, technical or typographical errors may exist in this document. Uniview cannot be held responsible for any such errors and reserves the right to change the contents of this document without prior notice.